

Hivemind 5520

Technical Brief



PERFORMANCE

Intel Xeon Processors: The Hivemind™ 5520 rack server is equipped with powerful dual Intel® Xeon™ processors for the ultimate in scalable performance in a 5U form factor. Xeon processors feature an 800MHz front side bus to enable fast access to system memory and increased clock speeds. Xeon processors include Intel Hyper-Threading technology to increase performance for multithreaded applications allowing the operating system to view one physical processor as two logical processors resulting in enhanced response times. This allows multiple tasks to be run simultaneously to significantly enhance your overall productivity.

Extended Memory 64-bit technology: With Intel EM64T technology, you can take advantage of 64-bit computing capabilities, large memory addressability, complete 32-bit compatibility and performance, all on one platform. Intel EM64T gives the Hivemind 5520 the flexibility to run both 32-bit and 64-bit applications at peak performance. Whatever your application needs, the Hivemind 5520 is ready.

STORAGE

Hard Drive Capabilities: The Hivemind 5520 supports up to 3TB of SCSI or 2.4TB of SATA hot-swap hard drives, as well as RAID 0, 1, 5, and 10 and redundant Network Interface Controllers to keep your systems running while protecting your data. Additionally, support for SATA and/or SCSI hard drives provides flexible and scalable headroom for future expandability.

APPLICATION SUPPORT

Hivemind 5520 servers come with Alienware Server Management Software, which allows you to:

- Maintain 100% management consistency with your NetFRAME servers
- Enjoy full management support for high RAS environments
- Full IPMI 2.0 compliance
- Completely integrate into a serial port-based management infrastructure
- Use serial text console redirection over your LAN

EXPANDABILITY

Memory: Scalable memory allows customers to increase server memory as their application demands increase. Database and messaging applications will benefit from increased memory scalability and fast access to memory data with support for up to 16 GB of ECC DDR 2 memory.

PCI X Slots: With six open PCI-X 66-bit/100 MHz slots and one Super Slot for a PCI-X riser card (3 66-bit/133 MHz slots) or a PCI-Express riser card (2 x8 PCI Express slots and 1 66-bit/100 MHz slot), the Hivemind 5520 supports a wide range of workloads for any data center.

PROCESSOR	Up to two Intel® Xeon™ Processors with EM64T
SYSTEM BUS	800MHz
MEMORY	Eight DIMM sockets supporting up to 16GB ECC DDR 2
CHIPSET	Intel E7520
DRIVE BAYS	Up to 10 Hot Swap SCSI hard drive bays with up to 6 SATA hard drives, plus 3 total 5.25 devices (max storage is 3TB SCSI or 2.4TB SATA)
HARD DRIVE CONTROLLER	Integrated Dual Channel U320 SCSI Controller
GRAPHICS	Integrated ATI Rage XL Video Controller with 8MB
NETWORK INTERFACE	Integrated Dual Gigabit Ethernet NIC
BUILT-IN I/O	DB-9 serial port; 3 USB Ports; PS/2 keyboard, 15 pin Video Connector
EXPANSION SLOTS	2x8 PCI Express Hot Plug, 2 64-bit/133MHz PCI-X Hot Plug, 64-bit/100MHz PCI-X (5 full size slots)
POWER SUPPLY	Hot Swap 730W or dual redundant Hot Swap 730W
FANS	Supports total of 4 hotswap fans in addition to 1 fan for each power supply
SERVER MANAGEMENT SOFTWARE	Alienware Server Management Software
SYSTEM DIMENSIONS	8.6 in (H) x 16.7 in (W) x 27.4 in (D)
ACOUSTIC EMISSIONS	Sound level: <55 dBA (rack mount) in an idle state
RELATIVE HUMIDITY (NON-OPERATING)	90% @+30 degrees C Non-Condensing
AMBIENT TEMPERATURE	Operating (system): +5 degrees C to +35 degrees C; Non-operating (system): -40 degrees C to +70 degrees C
ELECTROSTATIC DISCHARGE	+/- 15k V per Intel test specification
ELECTROMAGNETIC CAPABILITY CERTIFICATIONS	FCC/ICES-003 (US/Canada), CE-EMC (Europe)
SHOCK	Unpackaged: Trapezoidal 50g, 170 inches/sec
VIBRATION	Unpackaged: 5Hz to 500Hz 3.13g RMA random
AVERAGE SHIPPING WEIGHT	Approximately 105 lbs.
SAFETY CERTIFICATIONS	UL1950 CSA - 60950 (UL and cUL) (US/Canada)
SYSTEM SECURITY	A mechanical lock on the optional front bezel and an intrusion switch that can be monitored by Alienware Server Management Software
STANDARD WARRANTY AND SERVICE OFFERINGS	Up to 5-Year Limited Parts Warranty & Technical Support Policy; 5-Year Next Business Day On-site Service; 3 Network Operating System (NOS) Resolutions